User's Guide for the CRATE DXJFC

MIDI FOOTCONTROLLER

To obtain optimum performance from your Footcontroller, please read this guide before its use.

CRATE DXJFC MIDI FOOTCONTROLLER

Specifications:

Communication	MIDI, Midi channel 0 (default)
Presets	10
Selector Switches	Five
Display	Indicator LEDs for preset display and tap tempo
Expression Pedal	Passive volume control type, 50k – 1M ohm impedance
Power Requirements	Supplied via MIDI cable when used with Crate DX amplifiers
Dimensions	2.25"H x 15"W x 4"D
Weight	2.7 lbs

• Specifications and information subject to change without notice •

Additional Technical Information:

The DXJFC communicates to the DX amplifier via MIDI (Musical Instrument Digital Interface). Communication is on MIDI channel 0 by default, since the DX amplifier operates in "omni/poly" mode.

Presets are changed by standard MIDI program change messages. The MIDI message value can range from 0 to 9.

The Tap function defaults to MIDI controller #80. Value decimal 127 (hex 7F) is sent when the tap is pressed, zero is sent when it is released.

The expression pedal defaults to controller #11 using single byte controller values. Pedal assignments are communicated to the DX amplifier via a MIDI "system exclusive" (aka sysex) message. The following chart shows the sysex message format (in hexidecimal) after the System Exclusive status byte.

00, 01, 28	SLME sysex ID code	00, kk	knob ID (2 bytes) "kk" = knob ID
04	SLME packet type	00, 01	action ID (2 bytes)
00	packet number (zero)	cc	checksum "cc" = calculated checksum
06	packet data byte count	F7	end of sysex
00, 01	DXJFC product ID		

recyclable

www.crateamps.com

©2000 SLM Electronics, Inc. • A Division of St. Louis Music, Inc.
1400 Ferguson Avenue • St. Louis, MO 63133

47-063-01
03/00

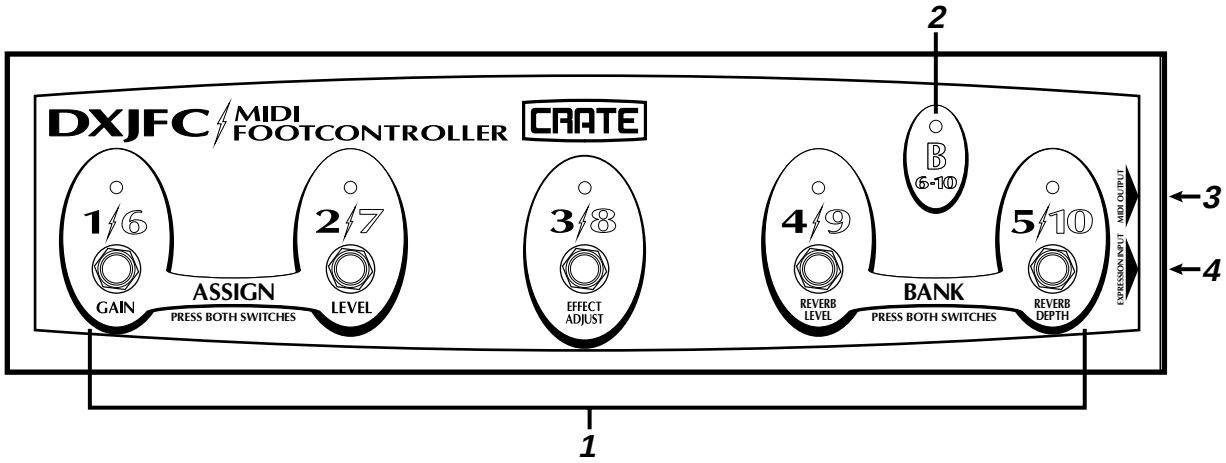
About the DXJFC:

What it is and what it does:

The Crate DXJFC MIDI Footcontroller is a foot-operated "remote control" designed to work with your Crate DX amplifier. Using the DXJFC, you can:

- Access up to 10 factory or user-defined presets
- Change presets "on the fly"
- Set the "tap tempo" for an effect
- Adjust selected amplifier controls (when used with an expression pedal)

The Front Panel/Side Jacks:



1) Selector buttons: Use these buttons to:

A) Select the desired preset,

B) Set the tap tempo for the selected preset,

C) Assign an expression pedal to a DX amplifier control knob (#1/6 and 2/7 pressed simultaneously),

D) Change banks (#4/9 and 5/10 pressed simultaneously)

A: To select a preset, step on the numbered button which corresponds to the desired preset.

B: To set the delay times or modulation speeds (tap tempo) of the effects, step three times on the button of the selected preset in time with the desired tempo. (The DX amplifier manual lists specifically what the Tap button controls for each of its effects.)

C: To assign an expression pedal to a control knob, see "Assignment of a DX Control Knob" on page 3.

D: To change banks, see the section "Selecting a Preset" on page 2.

2) Bank B Indicator: This LED illuminates when the "B" bank (presets 6-10) is selected. See "Selecting a Preset" on page 2

3) MIDI Out jack: Use this jack to connect the DXJFC to your DX amplifier using a standard MIDI 5-wire interconnecting cable.

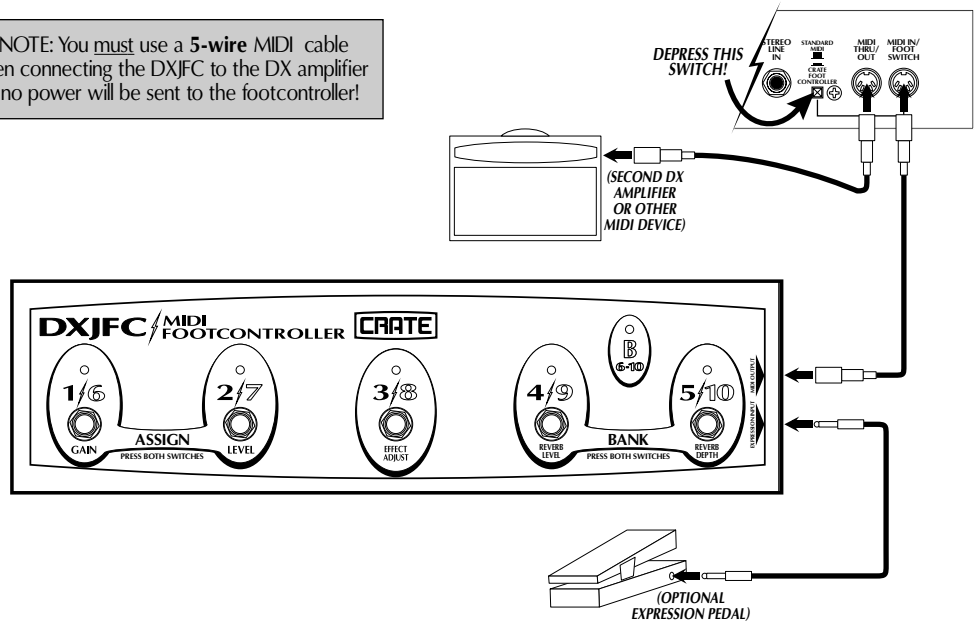
4) Expression Input jack: Use this jack to connect the optional expression pedal to the DXJFC for remote control of a DX amplifier control knob.

Using the DXJFC:

CONNECTING THE DXJFC: Use a standard 5-wire MIDI interconnecting cable* to connect the DXJFC's MIDI Out jack to the MIDI In jack of your DX amplifier or other MIDI-controllable device.

If you are using an expression pedal, use a standard instrument signal cable to connect the pedal's output jack to the DXJFC's Expression Input jack.

*NOTE: You must use a **5-wire** MIDI cable when connecting the DXJFC to the DX amplifier or no power will be sent to the footcontroller!



NOTE: When using the DXJFC with the Crate DX amplifier, you MUST DEPRESS THE "CRATE FOOT CONTROLLER" SWITCH ON THE BACK OF THE DX AMPLIFIER! The switch is located next to the amp's MIDI Thru/Out jack. If you don't, the DXJFC doesn't get its power and it won't work. (To avoid damage when using any MIDI device other than a Crate footcontroller with a DX amplifier, make sure this switch is set to the "STANDARD MIDI" position.)

SELECTING A PRESET: The DXJFC lets you access the 10 presets in groups (or "banks") of five – 1-5 (bank A) and 6-10 (bank B). To access bank B, step on the "4/9" and "5/10" buttons simultaneously. The Bank B indicator LED illuminates, and the buttons will access the second number (for example, the "2/7" button will access preset 7 when the Bank B indicator is illuminated).

NOTE: There will be no preset display LED illuminated until another preset is chosen after you change banks.

Each Selector button has two numbers – which of those two numbers is the "active" number depends on the setting of the bank. Remember: the presets work in banks of five. You have to get to the correct bank to access the preset within that bank. The chart below will help clarify this:

To access Preset:	Go to Bank:	Step on Selector button:	To access Preset:	Go to Bank:	Step on Selector button:
01	A	**1**/6	06	B	1/**6**
02	"	**2**/7	07	"	2/**7**
03	"	**3**/8	08	"	3/**8**
04	"	**4**/9	09	"	4/**9**
05	"	**5**/10	10	"	5/**10**

Using the DXJFC (con't):

USING AN EXPRESSION PEDAL: By using an external pedal, you can remotely adjust several of the controls (gain, level, effect adjust, reverb level, and reverb depth) on the DX amplifier through the DXJFC.

Here are some things you need to know about the expression pedal:

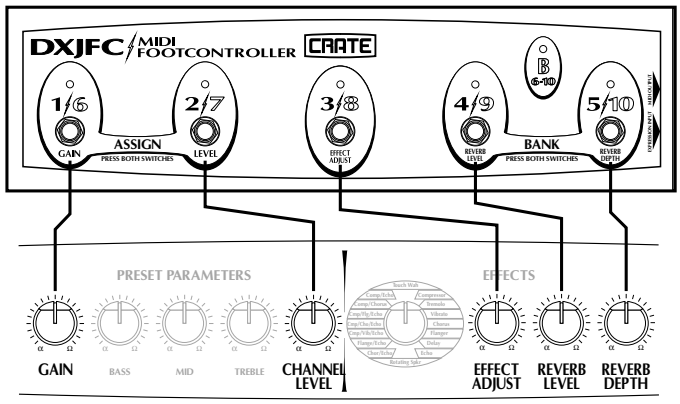
- The pedal must be a passive, unpowered type, such as the SLM OmniFex volume pedal VP-200, or the Dunlop HighGain GCB-80 with a "blank" 1/4" plug (as explained later on).
- After connecting the pedal, it must be calibrated to the DXJFC – simply adjust the pedal to its minimum output position, then to its maximum output position. This tells the DXJFC what kind of pedal you are using. If you forget to calibrate the pedal, the DXJFC will do it for you the first time you use the pedal through its full range. The pedal's effect on the DX amplifier control knob may change after calibration.

  NOTE: If the pedal doesn't seem to give you full range of control after calibration, unplug the pedal from the DXJFC, wait five seconds, plug the pedal back in, and adjust it to its minimum then maximum output positions.
- Some pedals may require a "blank" 1/4" plug (just a plain plug, no wires) to be plugged into the input jack to activate them – if your pedal doesn't work with the DXJFC, try using the pedal with such a plug in its input jack.
- If the expression pedal is unplugged from the DXJFC, the DXJFC will stop sending expression messages – the DX amplifier will revert to the knob setting stored in its current preset.

ASSIGNMENT OF A DX CONTROL KNOB: The default assignment for the expression pedal is the effect adjust control. To assign a different DX control knob to the expression pedal, follow these steps:

- Step on BOTH the "1/6" and "2/7" buttons simultaneously (the "1/6" and "2/7" LEDs will flash rapidly to indicate the footcontroller is in the "assign" mode.)
- Choose which DX control knob to assign to the pedal by stepping on one of the selector buttons – the buttons are labeled to correspond to the DX amplifier, as shown –––>

  1/6 = Gain 4/9 = Reverb Level
  2/7 = Level 5/10 = Reverb Depth
  3/8 = Effect Adjust
- That's it – the pedal is assigned – moving the pedal up and down now acts the same as reaching over to the amplifier and turning the assigned control (without actually having to reach over to the amp!)



(You can reassign the expression pedal at any time by repeating the above steps.)

STORING AN EXPRESSION PEDAL ASSIGNMENT: The DXJFC has no internal memory, so any assignments made must be stored in the amplifier's preset memory or they will be lost when the amplifier is turned off or when a different preset is selected. Follow the instructions in your amplifier's owners manual for saving/storing presets, and save the pedal assignment *before* turning off the power.

When you store the preset, the DXJFC assignment is stored with that preset and will remain there until you store the preset with a different assignment or store it with no assignment (cleared).

CLEARING AN EXPRESSION PEDAL ASSIGNMENT:

- Step on BOTH "1/6" and "2/7" buttons simultaneously
- Step on BOTH "1/6" and "2/7" buttons again – the expression pedal is no longer assigned to any of the DX controls for the current preset

Troubleshooting:

Pedal doesn't control setting	*No lights on DXJFC*	*Pedal control range inaccurate*
• Pedal plugged in? • MIDI cable connected? • "Blank" plug needed by pedal? • Pedal assigned to correct control?	• Standard 5-wire MIDI cable used? • MIDI cable connected? • Power button depressed on DX amp? • DX amp turned on?	• Pedal calibrated? (unplug pedal, wait five seconds, plug back in – adjust pedal to its minimum then maximum output positions) • Pedal impedance too low? (compatible impedance: 50k ohms to 1M ohm)